

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2095	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2095 Paradise Cut	U	4.86						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.86		0.86	17.69%				
Encroachments					0.47	0.01		
Slope Stability	0.06		0.06	1.23%				
Erosion / Bank Caving	0.01		0.01	0.21%				
<i>Supplemental</i>								
DWR Erosion Survey	0.07		0.07	1.44%				
DWR UCIP Field Study					0.08			
<i>LMA Totals:</i>	1.00	0.00	1.00	20.57%	0.55	0.01	0.00	0.00
Unit No. 01 Paradise Cut LB	Overall Unit Rating	Total Unit Miles						
RD2095	U	1.45						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.54		0.54	37.16%				
Encroachments					0.01			
Slope Stability	0.04		0.04	2.75%				
<i>Supplemental</i>								
DWR Erosion Survey	0.01		0.01	0.69%				
DWR UCIP Field Study					0.05			
<i>Unit Totals:</i>	0.59	0.00	0.59	40.60%	0.06	0.00	0.00	0.00
Unit No. 02 San Joaquin River LB	Overall Unit Rating	Total Unit Miles						
RD2095	M	3.41						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.32		0.32	9.39%				
Encroachments					0.46	0.01		
Slope Stability	0.02		0.02	0.59%				
Erosion / Bank Caving	0.01		0.01	0.29%				
<i>Supplemental</i>								
DWR Erosion Survey	0.06		0.06	1.76%				
DWR UCIP Field Study					0.03			
<i>Unit Totals:</i>	0.41	0.00	0.41	12.03%	0.49	0.01	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 01 Paradise Cut			Left	1.45
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	4/5/2016 - 4/5/2016		10/7/2016 - 10/7/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By			Rosie Silva RD2095	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_14				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	17
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_17				
Comment Code					
Inspector Comment					
The LMA has a current flood fight training and a flood fighting plan.					

No Photos

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start		End
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_RD2095_01_s_2013_19				
Comment Code					
Inspector Comment					
Flood fighting supplies available on-site at the warehouse.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2095 Paradise Cut

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.42	Rating **	C	Issue No.	13
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.766917 °	37.766917 °
				-121.322267 °	-121.322267 °
DWR ID	DWR_RD2095_01_s_2013_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
LMA is actively controlling the slope instability.					

No Photos

LM Start	0.70	Rating **	M	Issue No.	135
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.763859 °	37.763859 °
				-121.319096 °	-121.319096 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19787					
DS_ID:21635					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Wooden walkway to pier possible safety hazard as wood planks are rotten. Positive closure device missing from distribution box on LS toe.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 8.0 feet below the crown. Pump on pile structure in the channel. 5'X5' concrete distribution box at the toe of the landward slope. Originally included in the 1964 O&M manual. Permit 18886 (2014) requested to authorize the pump station, pipe and distribution box as part of the construction of a new pipe using the same platform and distribution box.					
FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_FA_2016_19787_33688.jpg



Pump on pier on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	135 (cont)	
LM End	0.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.763859 °		37.763859 °
				-121.319096 °		-121.319096 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19787 DS_ID:21635 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pier possible safety hazard as wood planks are rotten. Positive closure device missing from distribution box on LS toe. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 8.0 feet below the crown. Pump on pile structure in the channel. 5'X5' concrete distribution box at the toe of the landward slope. Originally included in the 1964 O&M manual. Permit 18886 (2014) requested to authorize the pump station, pipe and distribution box as part of the construction of a new pipe using the same platform and distribution box. FS Date: 9/10/2013						

Photo 2 of 2 : UCIP_FA_2016_19787_33687.jpg



Concrete distribution box on LS toe.

LM Start	0.71	Rating **	M	Issue No.	11
LM End	0.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.763630 °	37.763630 °
				-121.319045 °	-121.319045 °
DWR ID	DWR_RD2095_01_s_2012_11				
Comment Code					
BU : Building					
Inspector Comment					
Pump house near RR.					

Photo 1 of 1 : FA_2016_RD2095_322_11_20160914_00006.jpg



View of building at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.72	Rating **	M	Issue No.	1 (cont)
LM End	0.73	Issue Type +	Ma	Location *	WS

A photograph showing a riverbank with dense, green and yellowish vegetation. In the background, there is a building with a corrugated metal roof and a fence line. The river is visible in the foreground, and a concrete structure is partially visible on the left side of the frame.

Looking down at the erosion downstream of the RR bridge.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.72	Rating **	M	Issue No.	1 (cont)	
LM End	0.73	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.763630 °	37.763630 °	
				-121.319000 °	-121.319000 °	
DWR ID						
Comment Code						
Inspector Comment						
07/20/2016: No significant change observed.						
08/04/2015: No significant change observed.						
08/26/2014: No significant change observed.						
08/28/2013: No significant change observed.						
07/18/2012: No significant change observed.						
09/02/2011: No significant change observed.						
09/22/2010: No significant change observed. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected.						
08/06/2010: Recommended for local maintenance issue, per CLRO.						
07/29/2009: No major change since last visit; noticeable vegetation growth; erosion is on berm, but if left untreated, it will eventually erode into levee prism; site is recommended for annual assessment and monitoring of the site, per CLRO CES 2008 Report; Site # is the same as RM6.80,LM0.73; previously rated "U".						
07/22/2008: Downstream of WPRR near siphon pipe & pump; sandy levee; visited by Jeff Van Gilder and LRO in 2008 for repair assessment; scouring downstream of RR crossing, possibly caused by eddy effects.						
03/13/2007: Site visited on 03/13/2007. [2016 Site ID:RD2095U01RM6.74]						

Photo 3 of 3 : SJR2016_RD2095U01RM6.74_3.jpg



Close view of the erosion downstream of the RR ridge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.87	Rating **	M	Issue No.	136
LM End	0.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761582 °	37.761582 °
				-121.317881 °	-121.317881 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19812 DS_ID:21637 EP_NO: 13926 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No electrical connection can be identified. Possibly awaiting a flood event for re-activation. FIELD_STRUCT_DESC: 40-inch steel stormdrain discharge pipe through the levee 1-foot below the crown. 6 pumps mounted on wooden pier at LS toe, all discharge into 40-inch pipe. Permit was for a 24-inch steel discharge pipe through levee 2.0 feet below crown with a flapgate on waterward side. But, Permit notes show it was modified in 2001 to its current status (Permit No. 13926). FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_FA_2016_19812_33711.jpg



Pumps on pier at LS toe. Note electrical conduit without connection on right side of pier.

LM Start	0.87	Rating **	M	Issue No.	136 (cont)
LM End	0.87	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_19812_33710.jpg



Pipe on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.87	Rating **	M	Issue No.	139
LM End	0.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761554 °	37.761554 °
				-121.317847 °	-121.317847 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:34387 DS_ID:21629 EP_NO: 6259 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: What appears to be the concrete headwall on the LS toe is tilting and failing. There is a possibility that the concrete is rubble used to fill in around levee toe. Good candidate for video inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through levee 21.0 feet below crown. Slide gate in riser on the waterward slope. Concrete headwalls and aprons on both ends. Flap gate on the waterward end. Two corrugated metal cutoff walls (Permit No. 6259, 1969). FS Date: 9/10/2013					

LM Start	0.87	Rating **	M	Issue No.	139 (cont)
LM End	0.87	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_34387_62273.jpg



Pipe inlet located below 40-inch pipe at LS toe canal.

Photo 2 of 2 : UCIP_FA_2016_34387_62272.jpg



Concrete headwall on LS toe is tilting heavily towards canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.88	Rating **	A	Issue No.	4
LM End	0.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.761475 °	37.761475 °
				-121.317804 °	-121.317804 °
DWR ID	DWR_RD2095_01_f_2013_4				
Comment Code					
FE : Fence					
Inspector Comment					
Permitted gate across landside levee ramp. A key was provided to the DWR inspector.					

Photo 1 of 1 : FA_2016_RD2095_322_4_20160914_00004.jpg



View of the new gate at landside levee hinge.

LM Start	0.90	Rating **	M	Issue No.	9
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.761128 °	37.759201 °
				-121.317645 °	-121.308517 °
DWR ID	DWR_RD2095_01_f_2016_9				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD2095_322_9_20161011_00026.jpg



View of the vegetation on the landside levee slope and toe.

LM Start	0.90	Rating **	M	Issue No.	9 (cont)
LM End	1.44	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD2095_322_9_20161011_00027.jpg



Another view of the vegetation on the landside levee slope and toe, facing the San Joaquin River.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.91	Rating **	M	Issue No.	138
LM End	0.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761079 °	37.761079 °
				-121.317567 °	-121.317567 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19815					
DS_ID:21630					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Pipe abandoned and should be verified as having been done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel stormdrain pipe through the levee 1.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in steel standpipe on the waterward slope. Originally included in the 1964 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_FA_2016_19815_33719.jpg



Hole on LS shoulder where standpipe may have been located.

LM Start	0.91	Rating **	M	Issue No.	138 (cont)
LM End	0.91	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_19815_33718.jpg



Standpipe discarded on WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.91	Rating **	M	Issue No.	137
LM End	0.91	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.761046 °	37.761046 °
				-121.317540 °	-121.317540 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19813 DS_ID:21631 EP_NO: 6537 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Corroded holes on pipe at outlet WS toe, good indication of internal pipe condition. Good candidate for video inspection. FIELD_STRUCT_DESC: 14-inch steel stormdrain discharge pipe through the levee 2.5 feet below the crown. Pump on pile structure in drain ditch on landward side. Siphon breaker in 24-inch CMP riser on the waterward shoulder and flap gate on the waterward end (Permit No. 6537, 1969). FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_FA_2016_19813_33715.jpg



Siphon Breaker/vent in 24-inch steel riser on WS shoulder.

LM Start	0.91	Rating **	M	Issue No.	137 (cont)
LM End	0.91	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_19813_33714.jpg



Pump on wooden pier at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Left	3.41
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	4/5/2016 - 4/5/2016		10/7/2016 - 10/7/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By			Rosie Silva RD2095	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
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If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

Photo 1 of 1 : FA_2016_RD2095_323_9_20160914_00007.jpg



View of the vehicle tire ruts on waterside levee slope.

Photo 1 of 1 : FA_2016_RD2095_323_15_20161011_00027.jpg



View of the vegetation on the landside levee slope.

Photo 1 of 1 : FA_2016_RD2095_323_5_20160914_00006.jpg



View of a ditch along the landside toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.60	Rating **	A/W	Issue No.	6
LM End	0.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.751668 °	37.751668 °
				-121.304302 °	-121.304302 °
DWR ID	DWR_RD2095_02_s_2012_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Small shrub at the edge of the ditch.					

No Photos

LM Start	0.66	Rating **	M	Issue No.	16
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.750914 °	37.749609 °
				-121.304208 °	-121.302077 °
DWR ID	DWR_RD2095_02_f_2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.74	Rating **	A	Issue No.	14
LM End	0.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.749916 °	37.749916 °
				-121.303312 °	-121.303312 °
DWR ID	DWR_RD2095_02_f_2013_14				
Comment Code					
FE : Fence					
Inspector Comment					
Permitted gate across levee crown. A key was provided to the DWR inspector.					

Photo 1 of 1 : FA_2016_RD2095_323_14_20160914_00009.jpg



View of new gate across levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.82	Rating **	M	Issue No.	11
LM End	0.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.749644 °	37.749644 °
				-121.301960 °	-121.301960 °
DWR ID	DWR_RD2095_02_s_2016_11				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD2095_323_11_20161011_00021.jpg



Recent view of the vehicle tracks on the waterside levee slope, facing downstream.

LM Start	0.82	Rating **	M	Issue No.	11 (cont)
LM End	0.82	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD2095_323_11_20160914_00008.jpg



View of the vehicle tracks on the waterside levee slope.

LM Start	0.87	Rating **	M	Issue No.	18
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749635 °	37.749666 °
				-121.300948 °	-121.299185 °
DWR ID	DWR_RD2095_02_f_2016_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2095_323_18_20161011_00022.jpg



View of the vegetation on the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	0.97	Rating **	A/W	Issue No.	941
LM End	0.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749706 °	37.749706 °
				-121.299237 °	-121.299237 °
DWR ID	DWR_RD2095_02_s_2012_941				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense bush within 20' of crown on waterside slope.					

No Photos

LM Start	0.98	Rating **	A/W	Issue No.	940
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.749629 °	37.749629 °
				-121.299040 °	-121.299040 °
DWR ID	DWR_RD2095_02_s_2012_940				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	1.09	Rating **	N	Issue No.	3
LM End	1.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.748184 °	37.748184 °
				-121.298995 °	-121.298995 °
DWR ID	DWR_RD2095_02_s_2012_3				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
4 stumps					

Photo 1 of 1 : FA_2016_RD2095_323_3_20160914_00005.jpg



View of the tree stumps on the landside levee slope..

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.30	Rating **	N	Issue No.	8	
LM End	1.30	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.745343 °		37.745343 °
				-121.297620 °		-121.297620 °
DWR ID	DWR_RD2095_02_f_2012_8					
Comment Code						
T5 : Tree stumps.						
Inspector Comment						
Two tree stumps.						

No Photos

LM Start	1.31	Rating **	U	Issue No.	17
LM End	1.31	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.745314 °	37.745314 °
				-121.297666 °	-121.297666 °
DWR ID	DWR_RD2095_02_f_2015_17				
Comment Code					
FE : Fence					
Inspector Comment					
Possibly unpermitted gate and fence in the floodway. Remove the encroachment or obtain appropriate permits from CVFPB.					

Photo 1 of 1 : FA_2016_RD2095_323_17_20160914_00010.jpg



View of the gate and fence in the floodway at the waterside levee toe.

LM Start	1.35	Rating **	A/W	Issue No.	195
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.744746 °	37.744746 °
				-121.297695 °	-121.297695 °
DWR ID	DWR_RD2095_02_s_2014_195				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2095_323_195_20160914_00011.jpg



View of the erosion on the waterside levee slope possibly eroding into the levee prism.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.48	Rating **	M	Issue No.	942
LM End	1.48	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.743142°	37.743142°
				-121.297692°	-121.297692°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19863					
DS_ID:21642					
EP_NO: 4658					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned in place and re-routed to LM 1.652. Need to verify pipe was properly abandoned. Permit FIELD_STRUCT_DESC: *ABANDONED* 14-inch pipe through levee 3.5-feet below crown. Pump on structure over drain ditch on the landward side. Flap gate on the waterward end (Permit No. 4658). Originally included in the 1968 O&M manual.					
FS Date: 9/10/2013					

Photo 1 of 1 : UCIP_FA_2016_19863_33760.jpg



Pump visible on LS toe, but pipe has been re-routed to southwest.

LM Start	1.50	Rating **	A/W	Issue No.	12
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.742828 °	37.742828 °
				-121.297532 °	-121.297532 °
DWR ID	DWR_RD2095_02_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.63	Rating **	M	Issue No.	943
LM End	1.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.741345 °	37.741345 °
				-121.296189 °	-121.296189 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:19866
DS_ID:21654
EP_NO: 6298A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No permit identified for this crossing.
FIELD_STRUCT_DESC: 16-inch steel stormdrain pipe through the levee 2-feet below the crown. Siphon breaker in PVC riser on WS shoulder. Pump on pier in ditch on LS toe 750-feet to Northwest from crossing.
FS Date: 9/10/2013

LM Start	1.63	Rating **	M	Issue No.	943 (cont)
LM End	1.63	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_19866_33767.jpg



Pump located at levee toe 750-feet north west of pipe crossing.

Photo 2 of 2 : UCIP_FA_2016_19866_33766.jpg



16-inch steel pipe on LS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.74	Rating **	M	Issue No.	1
LM End	1.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.740196 °	37.740196 °
				-121.297662 °	-121.297662 °
DWR ID					

Comment Code

Inspector Comment

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.
 08/04/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/28/2013: No significant change observed.
 09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.
 The site was not visited by boat survey due to the limitation of navigable waterway.
 08/23/2011: No significant change observed.
 9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.
 9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2016 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	M	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SJR2016_RD2095U02RM60.62_1.jpg



Looking at the erosion from downstream of the site.

Photo 2 of 3 : SJR2016_RD2095U02RM60.62_2.jpg



Looking at the erosion from upstream of the site

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.74	Rating **	M	Issue No.	1 (cont)	
LM End	1.77	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.740196 °	37.740196 °	
				-121.297662 °	-121.297662 °	
DWR ID						
Comment Code						
Inspector Comment						
07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.						
08/04/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/28/2013: No significant change observed.						
09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.						
The site was not visited by boat survey due to the limitation of navigable waterway.						
08/23/2011: No significant change observed.						
9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.						
9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report						
2006: Visited 10/20/06 [2016 Site ID:RD2095U02RM60.62]						

Photo 3 of 3 : SJR2016_RD2095U02RM60.62_3.jpg



Close view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.82	Rating **	M	Issue No.	2
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.738880 °	37.738880 °
				-121.298260 °	-121.298260 °
DWR ID					
Comment Code					
Inspector Comment					
07/20/2016: No significant change observed. Dense vegetation blocks the visual inspection at the site.					
08/04/2015: No significant change observed.					
7/02/2014: No significant change observed.					
08/28/2013: No significant change observed. Dense vegetation blocks the visual inspection at the site.					
09/13/2012: The site has been visited by land survey. The erosion is not visible from the levee slope because of dense vegetation at the site. Levee slope is protected by placed rocks. The site was not visited by boat survey due to the limitation of navigable waterway.					
08/23/2011: Dense vegetation makes it difficult to view the possible erosion. No new development was observed on site.					
09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. The erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the district. Images taken from last year indicate that existing rip rap at the bank toe has sloughed exposing the underlying soils. Weakening of the toe could lead to future bank instability.					
08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.					
09/29/2009: No major change observed since last visit; sloughing of the rip rap above toe; erosion begins immediately downstream of existing rip rap revetment; roughly 15-foot berm remains; however, it will continue to erode and eventually intrude into the levee profile if left untreated.					
10/20/2006: Just upstream of where berm starts to widen. [2016 Site ID:RD2095U02RM60.69]					

Photo 1 of 2 : SJR2016_RD2095U02RM60.69_1.jpg



View of the erosion from the downstream levee crest. The dense vegetation on the site blocks the view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	1.82	Rating **	M	Issue No.	2 (cont)	
LM End	1.86	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.738880 °	37.738880 °	
				-121.298260 °	-121.298260 °	
DWR ID						
Comment Code						
Inspector Comment						
07/20/2016: No significant change observed. Dense vegetation blocks the visual inspection at the site.						
08/04/2015: No significant change observed.						
7/02/2014: No significant change observed.						
08/28/2013: No significant change observed. Dense vegetation blocks the visual inspection at the site.						
09/13/2012: The site has been visited by land survey. The erosion is not visible from the levee slope because of dense vegetation at the site. Levee slope is protected by placed rocks. The site was not visited by boat survey due to the limitation of navigable waterway.						
08/23/2011: Dense vegetation makes it difficult to view the possible erosion. No new development was observed on site.						
09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. The erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the district. Images taken from last year indicate that existing rip rap at the bank toe has sloughed exposing the underlying soils. Weakening of the toe could lead to future bank instability.						
08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.						
09/29/2009: No major change observed since last visit; sloughing of the rip rap above toe; erosion begins immediately downstream of existing rip rap revetment; roughly 15-foot berm remains; however, it will continue to erode and eventually intrude into the levee profile if left untreated.						
10/20/2006: Just upstream of where berm starts to widen. [2016 Site ID:RD2095U02RM60.69]						

Photo 2 of 2 : SJR2016_RD2095U02RM60.69_2.jpg



The erosion is not visible from the levee top. The levee slope is protected by riprap rocks.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	2.08	Rating **	M	Issue No.	944
LM End	2.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.735416 °	37.735416 °
				-121.297860 °	-121.297860 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19867 DS_ID:21643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker on LS shoulder does not appear to be functional. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.0-feet below the crown. Slant pump on steel platform on WS slope. Siphon breaker on the landward shoulder marked by T-post. Service pole and meter on the landward toe. Possible concrete standpipe on LS toe. Originally included in the 1968 O&M manual. FS Date: 9/10/2013					

LM Start	2.08	Rating **	M	Issue No.	944 (cont)
LM End	2.08	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_19867_33771.jpg



Siphon breaker on LS shoulder next to T-post with Power pole and concrete standpipe on LS toe.

Photo 2 of 2 : UCIP_FA_2016_19867_33770.jpg



Siphon breaker on LS shoulder next to T-post.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	2.09	Rating **	M	Issue No.	19
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.735276 °	37.735276 °
				-121.297777 °	-121.297777 °
DWR ID	DWR_RD2095_02_f_2016_19				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

LM Start	2.09	Rating **	M	Issue No.	19 (cont)
LM End	2.09	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_RD2095_323_19_20161011_00023.jpg



View of the erosion on the waterside levee slope.

Photo 2 of 2 : FA_2016_RD2095_323_19_20161011_00024.jpg



View of the erosion caused by excavation on the waterside levee slope.

LM Start	2.12	Rating **	A/W	Issue No.	20
LM End	2.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.734858 °	37.734858 °
				-121.297758 °	-121.297758 °
DWR ID	DWR_RD2095_02_s_2012_20				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	10/07/2016 10/07/2016	Maksim Khashchuk

LM Start	2.85	Rating **	M	Issue No.	21
LM End	2.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.724647 °	37.724647 °
				-121.299749 °	-121.299749 °
DWR ID	DWR_RD2095_02_f_2016_21				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD2095_323_21_20161011_00025.jpg



View of the landside levee slope erosion.

LM Start	2.85	Rating **	M	Issue No.	21 (cont)
LM End	2.85	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD2095_323_21_20161011_00026.jpg



Another view of the landside levee slope erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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